Avery Weigh-Tronix

Traxle™
total truck & axle weighing system

Model 1310 Traxle™ and In/Out Application User's Manual

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1310 Specifications

Power Input	Universal 85-265 VAC, 50/60Hz, 75VA
Excitation	10 Volts DC or 10 volts AC square wave capable of driving up to thirty-two 350-ohm weight sensors. Indicator is also capable of driving Quartzell™ transducers
Operational Keys	Zero, Tare, Print, Units, Select, Enter, Escape, Clear, 0-9/Alpha, Decimal Point and Five Soft Keys labeled per selected operational routine.
Operational Annunciators	Displayed symbols indicate motion, center of zero, unit of measure and more.
Display	Model 1310—Dot graphic display, 5"W x 1.33"H provides images and up to eight lines of weight and/or text. 240 x 64 dots cold cathode flourescent backlit, white on blue.
Display Characters	Application defined. 1.16" to 0.145" high.
Display rate	Selectable, from 1 in 10 seconds to 10 times per second
A to D Conversion Rate	60 times per second
Unit of Measure	Pounds, kilograms, grams, ounces, pounds and ounces and four programmable custom units
Capacity Selections	Up to 10,000,000 selectable
Incremental Selections	Multiples and sub multiples of 1, 2, 5
Decimal locations	88888888 pick any location relative to division size
Displayed Resolution	Up to 1 part in 10,000,000
Audio Output	Audio tone for key contact assurance or operational alarms
Time and Date	Battery protected real time clock is standard
Internal Resolution	1,000,000 counts analog, Quartzell™ transducer higher
Harmonizer™ digital filtering	Fully programmable to ignore noise and vibration
Memory	128K (expandable to 8MB)
Standard input and outputs	Com 1: RS232, RS-485/422, Quartzell™, SensorComm™ Com 2: RS232, 20 mA current loop Com 3: RS232, RS-485/422, Quartzell™, SensorComm™ Com 4: RS232, RS-485/422, Quartzell™, SensorComm™ (*One bi-directional signal per port*) Four set point I/O ports via OPTO 22 I/O modules 1 Analog scale input PS/2 Keyboard port
Dimensions	7.25" H x 11" W x 8.25" D (184 mm x 279 mm x 205 mm)
Available Options	- Multiple analog scale inputs, up to seven additional - Eight fully isolated, programmable analog outputs (selectable 0-20mA, 0-24mA, 4-20mA, 0-5VDC, 0-10VDC, ±5VDC, ±10VDC) - Remote expanded control interface for TTL or solid state up to 64 - OPTO 22 Generation 4 I/O Modules - Internal modem - Memory Expansion - 1, 4, 5, 8 MB (battery backed SRAM) - PC (AT) style alphanumeric keyboard - Up to sixteen pulse counter inputs - SensorComm™ Digital j-box - Traxle™ total truck and axle weighing
Fieldbus Network Interfaces	Device Net™, ProfiBus®, ControlNet™, InterBus, ModBus Plus, Ethernet 10/100 (ModBus TCP, TCP/IP (sockets), HTTP, SMTP, FTP, EtherNet/IP)
Operating Temperatures	NTEP 14 to 104° F (-10 to 40° C), 10 to 90% relative humidity
Enclosure	Stainless steel wash down enclosure NEMA 4X
Weight	17 lb, 7.7 kg
Agencies	NTEP Class III/IIIL:10,000d CC# 01-033 A1 FCC Class A

Introduction

About This Manual

Configuration file name is 14835A0A.310.

This manual covers the information you need to understand the operation of your Model 1310 Traxle indicator with the Traxle In/Out application installed. The Traxle application allows you to obtain axle weights without independent deck sections.

Major sections of this manual are headed by titles in a black bar like *Introduction* above. Subheadings appear in the left column. Instructions and text appear on the right side of the page. Occasionally notes, tips, and special instructions appear in the left column.

Model 1310 Indicator

The Model 1310 is a stand alone or network capable weight indicator and process controller. Built into the Model 1310 are the following standard features:

- 4 serial ports
- Time
- Date
- Stainless steel enclosure
- Large graphic display

The Model 1310 front panel is shown in Figure 1. The front panel includes the following:

- Five variable function soft keys
- Numeric keypad
- SELECT key
- UNITS key
- PRINT key
- TARE key
- ZERO key
- CE (Clear) key
- ESC (Escape) key
- ENTER key
- Decimal point key

Model 1310 Front Panel

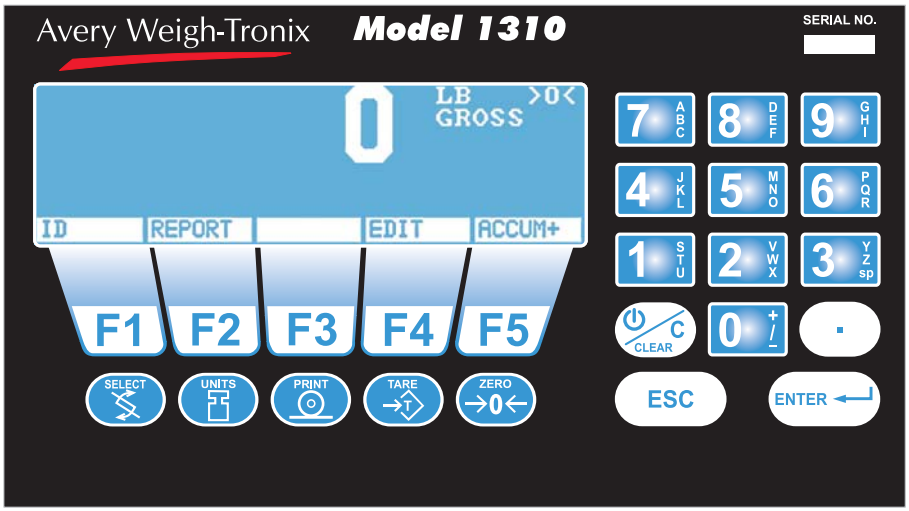


Figure 1
Model 1310 Front Panel

Display Contrast

To increase the contrast of the display, press and hold the **DECIMAL POINT** and **7** keys until the desired contrast is reached. To decrease the contrast of the display, press and hold the **DECIMAL POINT** and **1** keys until the desired contrast is reached.

If you have an optional PS2 style keyboard installed, to increase the contrast, press and hold the **ALT** and **Page Up** keys until the desired contrast is reached. To decrease the contrast of the display, press and hold the **ALT** and **Page Down** keys until the desired contrast is reached.

Front Panel Keys

The keys on the front panel of the Model 1310 are of two types, hard keys and soft keys. Hard keys are labeled directly and soft keys are labeled F1-F5. If a soft key has a function, its label appears at the bottom the the display. Soft keys function differently at different times and their labels change as needed.

Hard Keys

Below are brief descriptions for each of the hard key functions:

Use this key to toggle UPPER and lower case alpha characters, while entering alphanumeric characters. This works only if Lower Case has been enabled.

Repeatedly press the **SELECT** key to scroll through the available weight reading displays. (Examples - gross, net, tare, minimum, maximum, etc.) This key also toggles between Traxle and the IN/OUT application.

For alpha entries, this key toggles UPPER/lower case entry (if Lowercase Enable is turned on in the configuration). If lower case is selected, "abc" will appear in the upper right of the display.

Press the **UNITS** key to scroll through the available units of measure (lb, kg, oz, etc.).

By default the print format #0 sends:

Gross
Tare
Net

They are transmitted from port one only.

Press the **PRINT** key to send data to a connected printer. By default this key performs a DOPRINT command followed by a DOACCUM command.

Press the **TARE** key to tare the current gross weight, then repeatedly press **SELECT** to scroll through the tare, gross and net weight displays.

Press the **ZERO** key to establish a zero reference. A center-of-zero icon will be displayed when the weight is within ¼ division of zero. During motion an **M** will appear below the center-of-zero icon.

ON/OFF Clear key

If the indicator is powered down via the **ON/OFF/Clear** *key or by sleep mode time-out, press this key to power the indicator back up.*

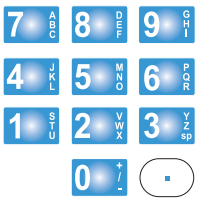
Press the **ESCAPE** key to back out of menus or cancel a numeric entry without accepting the value. Press and hold the **ESCAPE** key for 3-5 seconds to gain access to Password Entry Mode.

Press the **C(Clear)** key to clear values from the display prompts. Press and hold the **C** key for five seconds to power down the indicator.

Press the **ENTER** key to enter a keyed in value or accept a displayed choice.

Attention

If a display appears in which alpha or numeric characters can be entered, key function switches automatically so that repeated pressing of one key causes the number to appear first followed, by the alpha characters in descending order as labeled on the key. If you wait for the cursor to appear on the display and press a key, a new character is added to the previous one entered.



The alphanumeric keypad is for entering number and alpha characters. If a display for entering **numbers only** appears, you can key in the numbers using the keypad normally.

If a display appears in which alpha or numeric characters can be entered, key function switches automatically so that repeated pressing of one key causes the number to appear first, followed by the alpha characters in descending order as labeled on the key. If you wait for the cursor to appear on the display and press a key, a new character is added to the previous one entered.

Soft Keys

Soft keys are so called because their function is not fixed. Functionality can change as mode of operations change or as the program for your particular setup changes.

There are five soft keys located directly below the display. They are labeled F1-F5 on the overlay. If the keys are needed during any operation, a descriptive label appears in the display directly above the active key. There are only five key labels available at one time but this does not limit the potential usefulness of these keys. Programs can be created to enable one key to access another level of operation with five more key names and functions.

Serial Port Configuration

Serial port #1 is configured for use with TM-295, WP-233, or WP-234 printers. Configuration is 9600 baud, 8 data bits, no parity, no handshake, basic control mode.

Serial port #3 is configured for use with a computer and Truck Weigh. Configuration is 9600 baud, 8 data bits, no parity, no handshake, basic control mode.

Serial port #2 is configured for use with the RD-4100/6100 remote display. Configuration is 9600 baud, 8 data bits, no parity, no handshake, basic control mode.

Traxle Operation

Overview & Operation

The indicator powers up in the Traxle mode. To switch to truck IN/OUT operation, press the **SELECT** *key.*

Attention

Axle sets must be on separate deck sections.

Axle weights are not recognized as legal for trade.

Trucks must be driven onto the scale from the same direction. Enter on section one.

If you have a PS2-style keyboard attached to the indicator, below is a list of keyboard key strokes and their equivalent on the indicator:

Keyboard	Indicator
ALT-S	**SELECT** key
ALT-Z	**ZERO** key
ALT-T	**TARE** key
ALT-C	**CE** key
ALT-U	**UNITS** key
ALT-P	**PRINT** key
ENTER	**ENTER** key or **YES** soft key
ESCAPE	**ESC** key or **NO** soft key
1..9	Numeric entry
A..Z	Alphabet entry
F1..F5	**F1**..**F5** key
F6	**PRINT** key
.	Decimal point
Y	**YES** soft key
N	**NO** soft key

The Traxle application allows you to perform total truck and axle weighing by simply stopping twice on the scale with a two foot minimum movement of the truck between stops. Below is the process for doing a Traxle axle weighment.

1. Zero the scale by pressing the **ZERO** key. . .

   The following is displayed:

2. Drive the truck onto the scale. Be sure each axle set is on a separate deck section and has room for the truck to move forward two feet and still remain on those respective sections. **Truck brakes must be released.**

3. Press the **ID#** key if you want to enter an ID for this truck. . .

   The following is displayed:

4. Key in an alphanumeric ID number, up to 16 characters, and press **ENTER**.

5. Press the **STOP1** (F2) key. . .

   The display briefly shows:

   then

   then

6. Pull the truck ahead a minimum of two feet. **Truck brakes must be released.**

If a remote display is connected to the system it will display total truck weight only.

7. Press the **STOP2** key. . .

The display briefly shows:

then

then

then briefly shows

Display then returns to the following:

Sample weight ticket

```
     AXLE WEIGHT TICKET

     TIME:  10:12:45
     DATE:  05/02/02
     TRUCK ID:  A45B2

     AXLE 1:   9440  lb
     AXLE 2:  15380  lb
     AXLE 3:  25360  lb
     TOTAL:   50180  lb
```

If you need to reprint the last weight ticket, press the **RE-PT** key.

8. Repeat the process for all trucks to acquire both legal for trade total weight and individual axle weights.

In/Out Operation

Overview

The indicator powers up in the Traxle mode. To switch to truck IN/OUT operation, press the **SELECT** *key.*

The In/Out software application installed in the Model 1310 allows you to automate truck weighing. You can track up to 500 different open transactions and store up to 1,000 completed transactions. You can also store up to 4,000 tare weights.

Serial ports are configured for transmitting information to different devices; printer, computer and remote display.

Open Transaction Database

Data stored in the databases is in calibration units.

The following data is stored for each open transaction and is included in the open transaction report:

- Truck identification number (up to 16 alphanumeric characters)
- Inbound weight
- Time of inbound transaction
- Date of inbound transaction

Completed Transaction Database

The following data is stored for each completed transaction and is included in the transaction report:

- Truck identification number (up to 16 alphanumeric characters)
- Inbound weight
- Time of inbound transaction
- Date of inbound transaction
- Outbound weight
- Time of outbound transaction
- Date of outbound transaction

Tare Database

The Tare database stores up to 4,000 tare weights. You can print tare weight tickets using the **PRINT** key.

Remote Display

Traxle application defaults Com port 2 to RS-232. It can be configured as 20mA current loop.

Serial port #2 is used to send the displayed weight to an RD-4100/6100 remote display. The data is sent 1 times/second.

Inbound Procedure

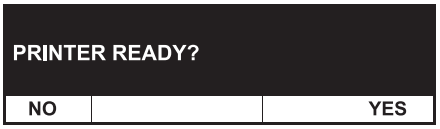
Follow these steps to perform truck in/out operations:

1. When you select the IN/OUT mode you will see this screen. . .

2. Be sure scale is zeroed by pressing the **ZERO** key. When an inbound truck comes onto the scale, press the **IN** key. . .

The inbound weight is stored in the OPEN database and the screen below is displayed.

3. Key in up to 16 alphanumeric characters for the truck ID and press the **ENTER** key. . .



is displayed.

This is a friendly reminder that if you want to have an inbound ticket printed, you must have a printer attached and ready to print.

3. Press YES if you want the ticket printed. Press NO if you don't want the ticket printed. . .

The Model 1310 searches the OPEN database for the ID number. If the ID number is found, see **A** below, on following page.

OR

If there is no previous use of this ID number, see **B** below, on following page.

If you have a PS2-style keyboard attached to the indicator, below is a list of keyboard key strokes and their equivalent on the indicator:

Keyboard	Indicator
ALT-S	**SELECT** key
ALT-Z	**ZERO** key
ALT-T	**TARE** key
ALT-C	**CE** key
ALT-U	**UNITS** key
ALT-P	**PRINT** key
ENTER	**ENTER** key or **YES** soft key
ESCAPE	**ESC** key or **NO** soft key
1..9	Numeric entry
A..Z	Alphabet entry
F1..F5	**F1**..**F5** key
F6	**PRINT** key
.	Decimal point
Y	**YES** soft key
N	**NO** soft key

When you are given a numbered list to choose from, press the number key on the number keypad to select your choice.

A. The following is displayed:

```
TRUCK ID IS ALREADY
IN USE
1) OVERWRITE
2) ABORT
```

Press 1 on the keypad to overwrite the current ID number. Press 2 to abort the transaction. . .

If you choose to abort the transaction, the previously stored information remains unchanged and the indicator returns to the weight display.

If you choose to overwrite the previous information, the gross weight on the scale is stored as the inbound weight and the current time and date are stored as the inbound time and date. After the information is stored, an inbound ticket is printed. See sample in Figure 1.

B. The gross weight on the scale is stored as the inbound weight and the current time and date are stored as the inbound time and date. After the information is stored, an inbound ticket is printed. See sample in Figure 1.

```
INBOUND

TRUCK  ID:  BALC1254
WEIGHT  :  1344 lb
TIME    :  11:54:28
DATE    :  11-12-01
```

Figure 1
Inbound ticket sample

Outbound Procedure

1. Be sure scale is zeroed by pressing the **ZERO** key. When an outbound truck stops on the scale, press the **OUT** key. . .

The following is displayed:

```
TRUCK ID IS ALREADY
IN USE
1) OVERWRITE
2) ABORT
```

2. Key in the truck ID and press the **ENTER** key or if the correct ID is displayed, press the **ENTER** key. . .

```
PRINTER READY?
NO                    YES
```

is displayed.

This is a friendly reminder that if you want to have an outbound ticket printed, you must have a printer attached and ready to print.

3. Press YES if you want the ticket printed. Press NO if you don't want the ticket printed. . .

The Model 1310 searches the OPEN database for the ID number. If the number is not found, the display informs you of that fact and returns to the weight display.

If the number is found, the outbound weight, date and time are stored in the transaction database and an outbound ticket is printed (if you have chosen to print the ticket). See example in Figure 2.

```
OUTBOUND

TRUCK  ID:  BALC1254
INBOUND  WEIGHT:  1344 lb
INBOUND  TIME  :  11:54:28
INBOUND  DATE  :  11-12-01

GROSS  WEIGHT  :  3485 lb
TARE  WEIGHT   :  1344 lb
NET  WEIGHT    :  2141 lb


OUTBOUND  WEIGHT:  3485 lb
OUTBOUND  TIME :  11:58:43
OUTBOUND  DATE :  11-12-01
```

Figure 2
Outbound ticket sample

TARE Key Function

When you are given a numbered list to choose from, press the number key on the number keypad to select your choice.

The **TARE** key allows you to add tare weights to the TARE database. You can recall and edit existing tare weights.

1. Press the **TARE** key. . .

If you press 1 to choose ***Enter Tare Weight,*** see Step 2 below.

If you press 2 to ***Recall Stored Tare,*** see Step 7 below.

2. When you press 1. . .

is displayed.

3. Key in a tare register number to store the tare weight in. This must be a number between 0 and 3999. Press the **ENTER** key. . .

If that tare register number already has a tare weight stored in it, the following is displayed, showing the tare register number and current tare weight:

If you press 1, go to step 4.
If you press 2, skip to step 6.

4. When you press 1. . .

is displayed.

5. Key in the weight and press **ENTER**. . .

The tare weight is stored under that tare register number and the display returns to a net weight display with that tare value active.

6. When you press 2. . .

The operation is aborted and the screen returns to the following:

7. When you press 2 to recall a tare register number. . .

is displayed.

8. Key in the tare register number (0-3999) and press **ENTER**. . .

If no tare weight exists for this tare register number, the display briefly informs you of this and then returns to the weight display.

If a weight exists for this tare register number, the display briefly shows the tare register number and tare weight, then display returns to a net weight display with that tare value active.

See the PRINT Key Function *section to generate a print with a stored tare weight.*

CLEAR Softkey Function

The **CLEAR** softkey allows you to delete information from one or more of the databases.

1. Press the **CLEAR** softkey. . . The following is displayed:

```
CLEAR DATABASE
1) TRANSACTION      4) ABORT
2) OPEN TRANS.
3) ENTIRE MEMORY
```

When you are given a numbered list to choose from, press the number key on the number keypad to select your choice.

2. Press 1, 2 or 3. . . You are asked if you really want to do this. If you choose NO, the display returns to the weight display. If you choose YES the database selected is cleared of all data. When you choose 3, you delete both the completed transaction and open transaction databases.

OR

Press 4. . . The display returns to the weight display with no data deleted.

REPORT Key Function

This is part of the BASIC program.

The **REPORT** key allows you to upload the contents of the completed or open databases to a computer through serial port 3. The reports are in a comma-delimited format. Each line has a line feed followed by a carriage return.

Below is an example of the data transmitted from the open transaction database (truck ID, inbound weight, inbound time, inbound date):

1,3485,12:01:45,11-12-01
11,3485,12:01:51,11-12-01
111,3485,12:01:55,11-12-01
1111,3485,12:02:01,11-12-01
11111,3485,12:02:06,11-12-01
15,3485,12:02:12,11-12-01
16,3485,12:02:17,11-12-01
17,3485,12:02:21,11-12-01
89,4015,12:02:27,11-12-01
125,4486,12:02:34,11-12-01
115,3938,12:02:44,11-12-01
4589,3551,12:02:50,11-12-01
47,3551,12:02:55,11-12-01
4789,3183,12:03:07,11-12-01
789,4523,12:03:14,11-12-01
456,4263,12:03:18,11-12-01

Below is an example of the data transmitted from the completed transaction database (truck ID, inbound weight, inbound time, inbound date, outbound weight, outbound time, outbound date):

1,3485,12:01:45,11-12-01,5004,12:04:52,11-12-01
11,3485,12:01:51,11-12-01,5004,12:05:00,11-12-01
111,3485,12:01:55,11-12-01,5004,12:05:05,11-12-01
1111,3485,12:02:01,11-12-01,5004,12:05:12,11-12-01
11111,3485,12:02:06,11-12-01,5004,12:05:19,11-12-01
15,3485,12:02:12,11-12-01,5004,12:05:26,11-12-01
16,3485,12:02:17,11-12-01,5004,12:05:32,11-12-01
17,3485,12:02:21,11-12-01,5004,12:05:37,11-12-01
89,4015,12:02:27,11-12-01,5004,12:05:41,11-12-01
125,4486,12:02:34,11-12-01,5004,12:05:46,11-12-01
115,3938,12:02:44,11-12-01,5004,12:05:52,11-12-01
4589,3551,12:02:50,11-12-01,5004,12:05:59,11-12-01
47,3551,12:02:55,11-12-01,5004,12:06:06,11-12-01
4789,3183,12:03:07,11-12-01,5004,12:06:12,11-12-01
789,4523,12:03:14,11-12-01,5004,12:06:25,11-12-01
456,4263,12:03:18,11-12-01,5004,12:06:32,11-12-01

PRINT Key Function

The **PRINT** key allows you to print a tare ticket. The tare ticket includes the tare number, gross weight, tare weight, net weight, time and date. A example is shown in Figure 3 below.

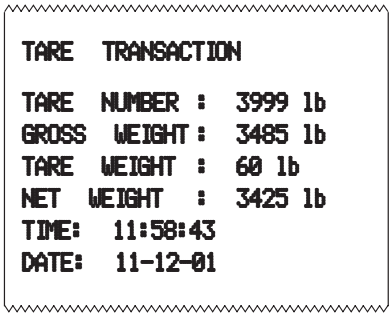


Figure 3
Tare ticket sample

General Weighing Operation

The following instructions step you through a typical weighing operation:

1. Press the **SELECT** key to toggle between Traxle and IN/OUT operation.

2. Zero the scale by pressing the **ZERO** key. . .

   Display should read zero weight and the center of zero symbol is displayed.

3. Place object to be weighed on the scale. . .

   An ***M*** appears on the display during scale motion and the weight is displayed.

Pushbutton Tare Operation

To perform a tare operation with the **TARE** key, follow these instructions:

1. Zero the scale by pressing the **ZERO** key. . .

   Display shows zero weight.

2. Place truck to be tared on the scale and press the **TARE** key. . .

   The display changes to a NET display and shows zero weight.

3. Place material to be weighed on the scale. . .

   Net weight is displayed.

Keypad Tare Entry

For entry of a known tare weight follow these instructions:

1. With the indicator showing gross weight, key in the tare weight using the numeric keys. . .

   A tare entry display shows the weight that you key in.

2. Press **ENTER** to accept this tare entry. . .

   The net weight is displayed in net mode.

Accessing Software Version

The time may come when you are asked by a service technician what the software version of your software is. There is a series of key strokes which will bring that number up on the screen. Below are the instructions for accessing this information.

1. Press and hold the **ESCAPE** key until the Model 1310 beeps.
2. Within five seconds, key in the number 111 and press **ENTER**.
3. Press the soft key labeled **VIEW**.
4. Press the soft key labeled **VERS**. The software version will appear on the display.

Warning Messages from SensorComm™

You may see warning messages listed in the table below. Also listed is a description of the error and possible causes. These may help with servicing. Error messages will appear in the upper right corner of the display window as shown in the example of error message #8 shown below.

All error messages below which mention components are referring to components within the SensorComm product.

Error #	Error	Description of Error	Possible Cause
1	Communications error	SensorComm not responding	-Cable -SensorComm hardware failure -Model 1310 hardware failure
2	Power fault	+Vin, +EXC, or -EXC has fallen out of tolerance. Voltage ±5%.	-Power supply failure -Cable
3	A to D overrange	More than +5mV/V has been applied to the A to D converter	-Cable -Weight sensor failure
4	A to D underrange	Less than -5mV/V has been applied to the A to D converter	-Cable -Weight sensor failure
5	A to D Initialization failure	A to D converter not responding	-Component failure -Power supply problems
6	Weight sensor overrange	The weight sensor output has exceeded the configured amount.	-Abuse of scale -Weight sensor failure
7	Weight sensor deadload shift warning	The output of the weight sensor is greater than ±1% of capacity since calibration	-Gauging problem on the weight sensor -Mechanical issue with the scale
8	Weight sensor deadload shift error	The output of the weight sensor has increased more than a configurable percent of capacity since calibration	-Gauging problem on the weight sensor -Mechanical issuse with the scale
9	Weight sensor stability	The output of 1 or more weight sensor is not in the same range as the rest of the scale.	-Mechanical issue with the scale -Weight sensor problem

911 Diagnostic Menu

The Model 1310 has an emergency help menu with a password of 911 to help you diagnose problems with SensorComm components. Following are the instructions you need to access this menu and explanations of each part of the menu that pertain to the SensorComm option. Figure 4 shows a flow chart of the soft keys in the 911 menu.

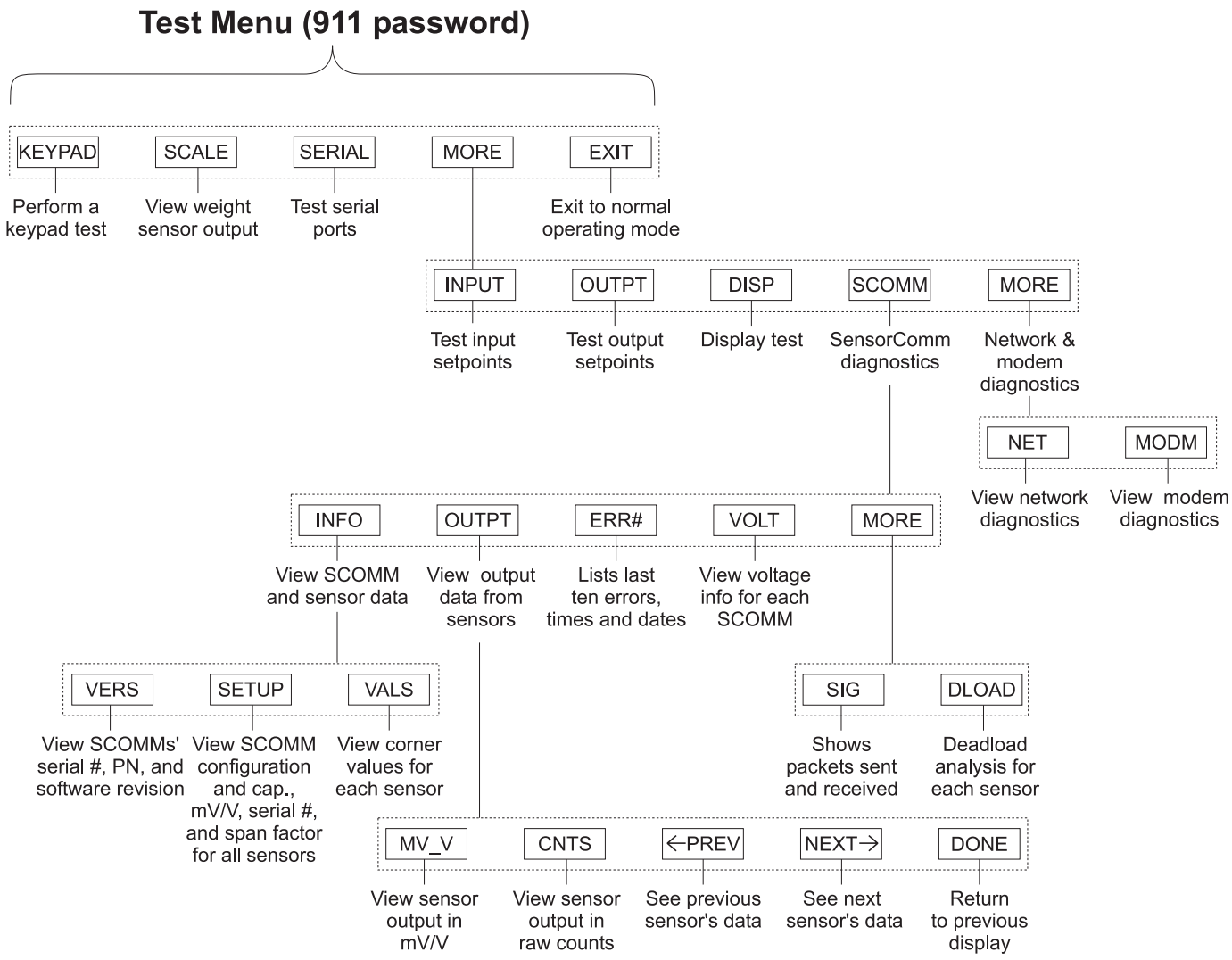


Figure 4
Flowchart of soft keys in the Test menu

This manual covers the information needed to use and understand SensorComm. For information on the soft keys not covered in this manual, see the Model 1310 Service Manual PN 29803-0016.

Hold the **ESCAPE** key for 5 seconds then key in **911** at the prompt and press **ENTER**. These softkeys appear:

KEYPAD This test lets you check each front panel key for proper operation. Follow the instructions on the display.

SCALE Disabled when SensorComm active.

SERIAL Use this to test your ports. Select Port #1 through 4 then short the TX and RX on the selected port. The display will change from NO LOOP to LOOP indicating the port is good. Jumper RTS to CTS to test the handshake lines.

MORE	Accesses the following keys:
INPUT	Allows you to Activate/Deactivate any input setpoint device such as a switch or contact closure remotely and monitor it with this menu.
OUTPT	Allows you to Activate/Deactivate any output setpoints to verify correct hardware operation during installation or for trouble-shooting purposes.
DISP	This test continuously cycles the display through a test pattern.
SCOMM	Accesses the SensorComm diagnostics
MORE	This key accesses the following keys:
NET	This diagnostic will only appear if a network option card is installed. Follow the instructions on the display. For more information reference the *Network Installation Guide* PN29762-0015.
MODM	Appears only if modem is enabled by SimPoser program. This key accesses the modem diagnostics.

SCOMM Soft Key

Refer to Figure 4 as the soft keys and functions which apply to SensorComm are explained below.

When you press the SCOMM soft key, the following keys appear:

INFO See *INFO Soft Key* section.

OUTPT See *OUTPT Soft Key* section.

ERR# See *ERR# Soft Key* section.

VOLT See *VOLT Soft Key* section.

MORE Brings up the following keys:

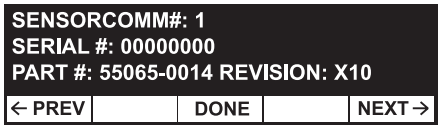
SIG See SIG Soft Key section.

DLOAD See DLOAD Soft Key section.

INFO Soft Key

Press this key to view SensorComm and weight sensor specifications.

VERS soft key Brings up a display similar to this example:



This display shows you the serial number, part number and software revision level of SensorComm #1. Press the **NEXT** or **PREV** soft key to other active SensorComm j-boxes.

Press the **ESC** *key to back out of most displays and return to the previous display.*

SETUP soft key

Brings up a display similar to this example:

```
SENSORCOMM CONFIGURATION:
# OF BOXES: 2
# OF SENSORS: 8
ANY KEY TO CONTINUE.
```

This display shows you the configuration of the SensorComm system. In this example the system has two SensorComm j-boxes with a total of eight weight sensors. Press any key and the following is displayed:

```
SENSOR#: 1
CAP:5000 OUTPUT:1.000000 MV/V
SERIAL#: 000000 SPAN:0.000000
| ← PREV |  | DONE |  | NEXT → |
```

This screen lets you scroll through all the sensors using the **PREV** and **NEXT** soft keys. Information displayed for each sensor is programmed capacity, output in mV/V, serial number and span factor.

VALS soft key

Brings up a display similar to this example:

```
CORNERING VALUES FOR SCOMM#:1
#1: 0.949705   #2: 0.989280
#3: 1.079973   #4: 0988274
ANY KEY TO CONTINUE.
```

This display shows you the stored cornering values for each sensor attached to a SensorComm j-box. Press any key to see the next SensorComm values if there is another attached. Returns to VERS-SETUP-VALS soft key set after viewing the last set of values.

OUTPT Soft Key

Press this key to view the current output of each weight sensor in raw counts or mV/V. You will see a display similar to this example:

Press **DONE** *to return to the previous level display.*

```
SENSORCOMM#: 1  COUNTS MENU
#1: 500000   #2: 500000
#3: 500000   #4: 500000
| MV_V | CNTS | ← PREV | NEXT → | DONE |
```

This display shows you the current output in raw counts for each sensor attached to SensorComm #1. Press the **PREV** or **NEXT** soft key to move between multiple SensorComm j-box displays.

If you press the **MV_V** soft key, you will see a display similar to this example:

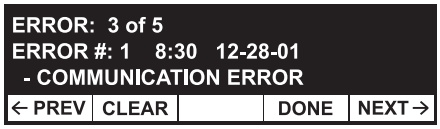
Press **DONE** *to return to the previous level display.*

```
SENSORCOMM#: 1  MV/V MENU
#1: 0.639000   #2: 0.651000
#3: 0.653000   #4: 0.660000
| MV_V | CNTS | ← PREV | NEXT → | DONE |
```

This display shows you the current output in mV/V for each sensor attached to SensorComm #1. Press the **PREV** or **NEXT** soft key to move between multiple SensorComm j-box displays.

ERR# Soft Key

Press the **ERR#** soft key to see a record of the last 10 error code numbers and the dates and the times these occurred. The screen will look similar to the example below:



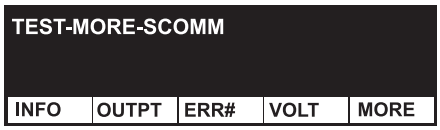
The top line tells you how many errors are in the list and which one you are viewing.

The second line shows the error number and time and date it occurred.

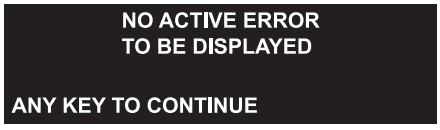
The third line gives you the name of the error. This corresponds to the list of errors in *Error Messages from SensorComm™*.

Press **NEXT** or **PREV** to see the entire list of error messages.

Press **CLEAR** to clear all the messages. You will be asked if you are sure and be shown **YES** and **NO** keys. If you press **NO**, the display returns to the error message screen. If you press **YES**, the display returns to the following screen:

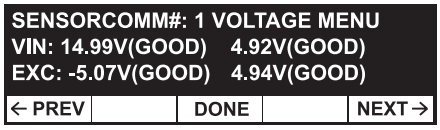


If you press the **ERR#** key and there are no active errors, you will see this display:



VOLT Soft Key

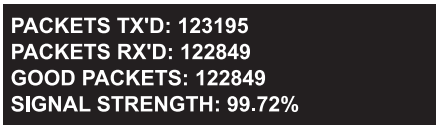
Press the **VOLT** soft key to see current Voltage In and Excitation voltage reports. The screen will look similar to the one below:



View other connected SensorComm j-boxes by using the **PREV** or **NEXT** soft key. Press **DONE** to return to the previous level display.

SIG Soft Key

Press the **SIG** soft key to see a constantly changing display similar to the example below:

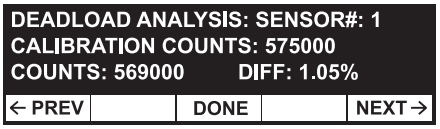


Press the **ESC** *key to back out of most displays and return to the previous display.*

This screen shows the number of packets of information sent to the SensorComm system and the number received back correctly. This is a measure of the relative reliability of your communication setup. If the signal strength shows a lower percentage, chances are the system is experiencing some kind of line noise and thus, less reliable communication.

DLOAD Soft Key

Press the **DLOAD** soft key to view the deadload analysis for each weight sensor. You will see a display similar to the example below:



This display shows the calibration counts, current raw counts and difference for sensor #1.

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